

AMENDMENTS TO THE CLAIMS**Claims 1-23 (Canceled)**

Claim 24 (Amended) A thermal barrier coating arrangement comprising:

a base material of a heat resistant alloy; and

a ceramics layer formed on said base material for enhancing heat resistance of said base material;

wherein said ceramics layer comprises ZrO₂ provided with Yb₂O₃ of 10 weight % or more and 25 weight % or less as a stabilizer;

wherein said ceramics layer has cracks introduced into said ceramics layer that extend in a thickness direction of said ceramics layer; and

wherein said cracks are introduced into said ceramics layer such that they extend in a range of $\pm 40^\circ$ relative to a normal line to a face of said ceramics layer and not outside the range; and

wherein said ceramics layer has fine pores formed therein and a porosity of said pores relative to said ceramics layer is 8% or more and 15% or less.

Claim 25 - 31 (Canceled)

Claim 32 (Amended) A thermal barrier coating arrangement as claimed in Claim 24, wherein a Yb₂O₃ addition quantity in said ceramics layer is 815 weight % or more and 2720 weight % or less.

Claim 33 (Canceled)

Claim 34 (Previously Presented) A thermal barrier coating arrangement as claimed in Claim 24, wherein an interval between adjacent said cracks is 0.05 to 1 times the thickness of said ceramics layer.

Claim 35 (Previously Presented) A thermal barrier coating arrangement as claimed in Claim 24, wherein said ceramics layer in which said cracks are introduced has a corrosive

component penetration preventing layer that is made of the same material as said ceramics layer and is formed on said ceramics layer.

Claim 36 (Previously Presented) A thermal barrier coating arrangement as claimed in Claim 35, wherein said corrosive component penetration preventing layer has a thickness of 5 to 50 μm and a porosity of 4 to 20%.

Claim 37 (Previously Presented) A thermal barrier coating arrangement as claimed in Claim 24, wherein a metallic bond layer is provided between said base material and said ceramics layer.

Claim 38 (Previously Presented) A turbine part comprising a thermal barrier coating as claimed in Claim 24.

Claim 39 (Previously Presented) A gas turbine comprising a turbine part as claimed in Claim 38.

Claim 40-42 (Canceled)